**Macro-Enabled M-Line Drive Selection**

**Setup Instructions**

1. Navigate to **S:\M Series Drive Selection**. There should be a folder named **VFD\_Parse**
   1. This file contains several important folders, including this **Setup** document, some for instructions and troubleshooting, and a host of Excel sheets to enable macros. All of these are necessary in order for proper operation of the macro-enabled process.
   2. It also has some useful extras such as shortcuts to the Released SMART orders and to the **VFD Parameters** folder on the **eng\_shared** drive
   3. Do not move this folder, or its parent folder for that matter, from the **eng\_shared** drive.
2. This folder (**VFD\_Parse\Setup and Repair**) contains a necessary executable (green icon)
   1. Its name should be: **ni-cvi-2020-runtime\_20.0\_suite\_online**. This is the National Institute, CVI Runtime Engine needed to run the Lau modules. Without it, the .DLL file used to create these Lau modules will not be found by Excel, strangely. Click on the file to run it and follow all the suggested prompts when they appear. You’ll need everything it auto-suggests. It will prompt you to reboot your computer. Hold off on that for now.
3. Use this time to check your Office version. To check this, go into Excel, for example. Before opening a new document, on the green left-hand ribbon, click **Account >> About Excel.** This will allow you to see what Excel version you’re running. The top, bolded bar should have **32-bit** at the very end. You need this. An Office Version of 2016 or sooner is also required for the fan calculation modules. If your Office version is **64-bit and/or older than 2016**, do not restart your PC, but close the window and follow the below instructions to switch to **32-bit**. Otherwise**, restart your PC, and skip to step 4**.
   1. NOTE: The “bitness” of your Office setup (32 vs. 64) does not change any of your account information, or your ability to read documents with any included software, or even the year-version of Office. Nor does uninstalling it delete any of your documents. It is simply based on a 32-bit processing system, which the Comefri Fan modules depends on in order to run properly. It would be easier and ideal to simply install a 32-bit Excel, but Office doesn’t tend to like difference in bitness among its bundled programs.
      1. If you’re still hesitant to switch the bitness of your Office setup, feel free to designate an infrequently-used PC as an “M-Line Macro Computer”, so that at least one machine will work, if you choose not to change your personal one.
   2. Click the windows icon in your lower left corner, open the **Control Panel**, and navigate to **Programs and Features,** and look in the list for the orange Office logo, named something like: **Microsoft 365 Apps for business – en-us.** Make sure you know your Office account information, have every document you need (Word, Excel, etc.) saved and closed out, and then uninstall this program. You’ll need admin access.
      1. NOTE: If you want to keep this instruction set handy while you uninstall Office (and Word), try the web version of Word while the local version gets removed. Just copy all this information and put it into a new (online) Word Doc. You can pull it up online after the reboot as well since it autosaves.
   3. After Office is fully uninstalled, reboot your computer now. The CVI Runtime Engine will use the reboot to apply its download, and Office will use the reboot to remove all remaining Office executable files (again, not any documents)
   4. Navigate to Office.com through any browser. Login to your account, and click the following from the default home screen on the right-hand side: **Install Office >> Other install options >> Apps & devices.** Here you should see two download options, one for Office, and another for Skype. Under Office, choose **English (United States)** for the language and **32-bit** for the version. **DO NOT FORGET TO SELECT 32-BIT.** Click the orange **Install Office** button to install this new version. It will be the most recent version of Office, so no need to worry about it being older than 2016.
   5. Once you see the executable file downloaded, run it. It will automatically install Office for you. You may or may not need to sign into any Office programs to get your personal account back up and running. Replace any Office shortcuts you had prior to uninstalling and you should be all set. No reboot required
4. At this point, you should have the CVI Runtime Engine installed and a 32-bit Office. If you want, you can do a quick check again to ensure you in fact are running a 32-bit Office. If this somehow isn’t the case, run through the procedure in step 3 again carefully.
5. Back in the **VFD\_Parse** folder, open the **Test** folder and open the **Test.xlsm** sheet.
   1. **Macros must be enabled.** If the shared drive is not trusted by Excel by default, add this folder to Excel’s list of trusted locations. Do this by navigating to **File >> Options >> Trust Center >> Trust Center Settings…>>Trusted Locations**. Check the box “Allow Trusted Locations on my network”. The “not recommended” note can effectively be ignored, since you only need to trust one folder. Click “Add new location…”. When the pop-up appears, browse for the shared **S:\M Series Drive Selection** folder. Check the box to allow subfolders within this to be trusted. Now, all macros here will be trusted.
6. The **Test.xlsm** sheet should look like a VFD Parameter Template. It may or may not have usable values. These will change dynamically once you run a quick test to ensure it operates as intended. Run this test by typing **Ctrl+t**. This will run a test macro to ensure that your PC has the necessary software for correct macro usage. Don’t click on anything in the meantime. Clicking or typing will interfere with the testing process. Upon its completion, you will see either an error message or a success message. If successful, continue to step 7. If unsuccessful, take note of which module isn’t working and look over the previous steps for further help. The macro-enabled process is not considered complete until this test macro returns a success message. **If you use the Drive Selection macro before passing all tests to ensure macro functionality, the drive selection will be incorrect.**
7. If you got a success message, then at this point, the setup process is complete. Refer to the **Instructions** documents within the **Main** folderfor operation instructions (the **Visual Operation Instructions** are the most user-friendly). You only need to complete this setup process once for it to continually work. See **Repair** **for M-Line Macros** if something breaks for some reason.